





**Boro**chi

# Boro

## chi Hybrid Inverter



BHW-10 | BHW-12 | BHW-15

-  Multifunctional Operating Modes
-  High Efficiency Up to 98%
-  Flexible Inputs with Expansion Options
-  Intelligent Monitoring

Model	BHW-10	BHW-12	BHW-15
PV Input			
Recommended Max. PV Input Power [Wp]	13000	15600	18750
Max. Input Voltage [V]		1000	
MPPT Voltage Range [V]		180~950	
Rated Voltage [V]		600	
Start-up Voltage [V]		200	
No. of MPP-Trackers		2	
No. of PV Strings per MPPT		2/1	
Max. Input Current per MPPT [A]		30/15	
Max. Short-Circuit Current per MPPT [A]		36/18	
AC Output			
Rated Output Power [W]	10000	12000	15000
Rated Output Current [A]	14.5	17.4	21.7
Max. Output Current [A]	16	19	23.8
Max. Apparent Output Power [VA]	11000	13200	16500
Rated Output Voltage [V]		220/380;230/400	
Rated Grid Frequency [Hz]		50/60	
Power Factor [cosφ]		1/0.8( leading)~0.8(lagging)	
THDi (@Rated Output Power )		<3%	
AC Input (Grid)			
Max. Apparent Input Power [VA]	11000	13200	16500
Max. Input Current [A]	15.9	19.1	23.8
Rated Output Voltage [V]		220/380;230/400	
Rated Grid Frequency [Hz]		50/60	
Battery			
Battery Module Type		Lithium Iron Phosphate (LiFePO4)	
Battery Voltage Range [V]		150-600	
Maximum Charge/Discharge Current [A]		25	
Battery Communication		CAN	
AC Output (Off-Grid )			
Rated Output Power [W]	10000	12000	15000
Rated Output Voltage[V]		220/380;230/400	
Rated Output Frequency [Hz]		50/60	
Rated Output Current[A]	14.5	17.4	21.7
THDi (Rated Output Power)		<3%	
Switch Time [ms]		<10	
Peak Apparent Power , Duration [VA,s]	15000,30	18000,30	22500,30
Efficiency			
Max. Efficiency		98%	
Euro Efficiency		97.3%	
Charging/Discharging Efficiency of the Battery		98.5%@Charge/97.0%@Discharge	
Protection			
DC-Schalter		Integrated	
Insulation Resistance Detection		Integrated	
Input Reverse Polarity Protection		Integrated	
Anti-island Protection		Integrated	
Residual Current Monitoring		Integrated	
Overtemperature Protection		Integrated	
DC Surge Protection		Integrated (Type II)	
AC Surge Protection		Integrated (Type II)	
General Data			
Dimensions (W×H×D) [mm]		498 × 563 × 200	
Weight [kg]	28	28	29
Display		LCD / WEB / APP	
Communication		WIFI / RS485 / LAN	
Operating Temperature Range [°C]		-25~60	
Relative Humidity		0%~100%, Non-condensing	
Operation Altitude[m]		≤4,000 (Derating above 2,000)	
Self Consumption (night) [W]		<15	
Topology		Transformerless	
Cooling Concept	Natural Convection	Natural Convection	Smart fan-cooling
Ingress Protection (IP) Rating		IP66	
Warranty		10 Years	
Certification	VDE 4105; IEC 62109-1/2;IEC 62477-1;IEC 61000-6-1/2/3/4;CE		

\* The technical specifications may be changed without prior notice due to product improvements.

## Borochi Climate Solutions GmbH

**Adresse:** Alt-Moabit 2, 10557 Berlin, Germany

**E-Mail:** sales@borochi.de

**Web:** https://borochi.de/

